Voltage Control Phase Shifter
60- 80MHz

Features

- Wide Band Operation 60-80MHz
- 180° Phase Shift
- Low Insertion Loss and Low Phase Error
- Singe Control Operation

Typical Applications

- Military and Aerospace
- Test & Measurement
- Wireless Infrastructure

Electrical Specifications, TA = +25 ℃

Description	PN:RVPT0003MAC			
	Voltage Control Phase Shifter			
Parameter	Min.	Typ.	Max.	Units
Frequency Range	60		80	MHz
Phase Range		180		deg
Phase Error		±20		deg
Insertion Loss		2.0	2.5	dB
Insertion Loss Temperature Coefficient		0.01		dB/°C
Input VSWR		1.3	1.5	:1
Output VSWR		1.3	1.5	:1
0.1dB Compression Point (P0.1dB)		30		dBm
Control Voltage	0	10		V
Current Consumption	1 Max.			mA
Impedance	50			Ω
Weight	2.0 Max.			Ounces
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			

Voltage Control Phase Shifter 60 - 80MHz

Absolute Maximum Ratings

Control Voltage	0~15V @ 25℃
RF Input Power	+27dBm @ 25℃

Ordering Information

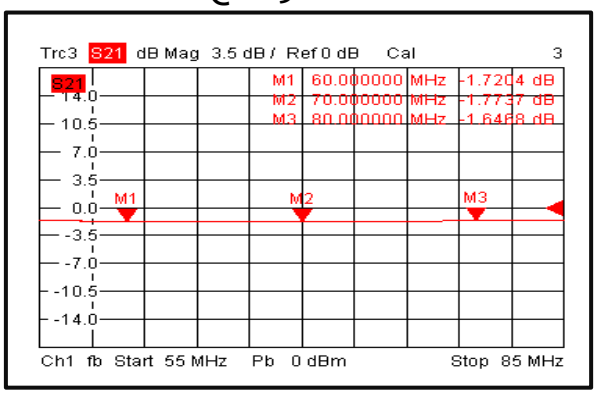
Part No	ECCN	Description
RVPT0003MAC	EAR99	60-80MHz Voltage Control Phase Shifter

Environmental Specifications and Test Standards

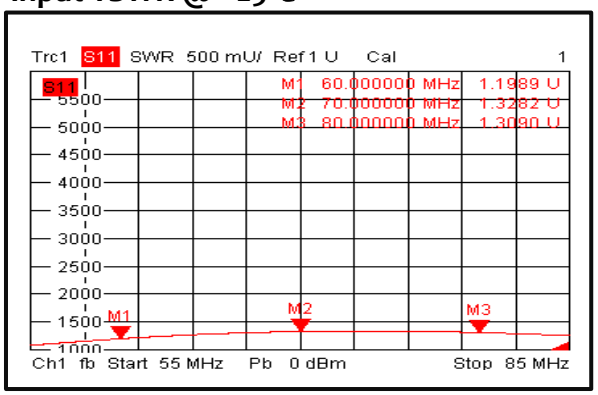
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40℃~+85℃
Storage Temperature		-50℃~+105℃
Thermal Shock		1 Hour@ -40℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ for 72 Hours
Shock		1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883	MIL-STD-883 (For Hermetically Sealed Units)

Typical Performance Plots

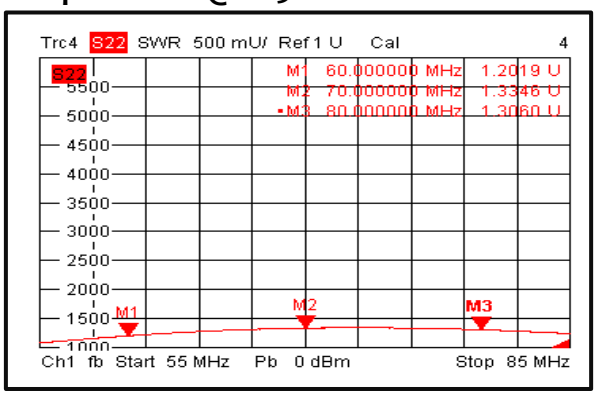
Insertion Loss @ +25°C



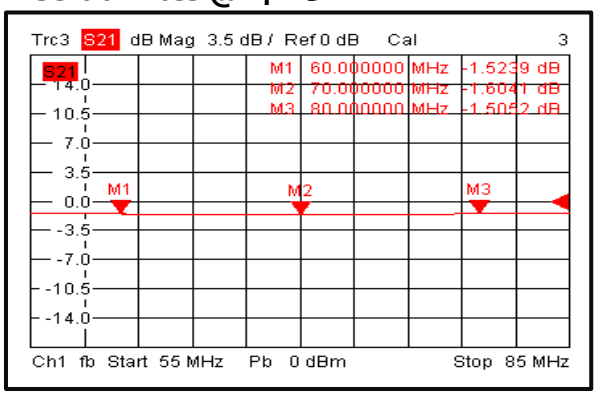
Input VSWR @ +25°C



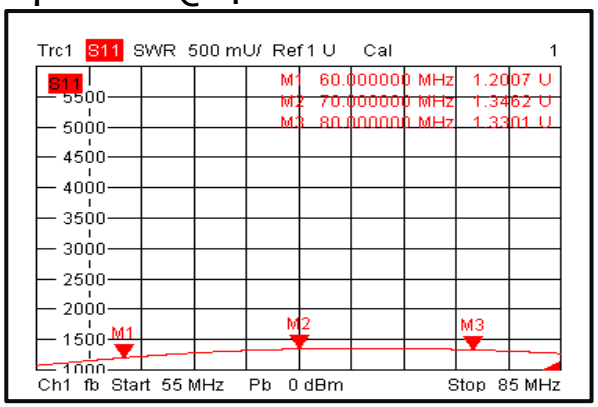
Output VSWR @ +25°C



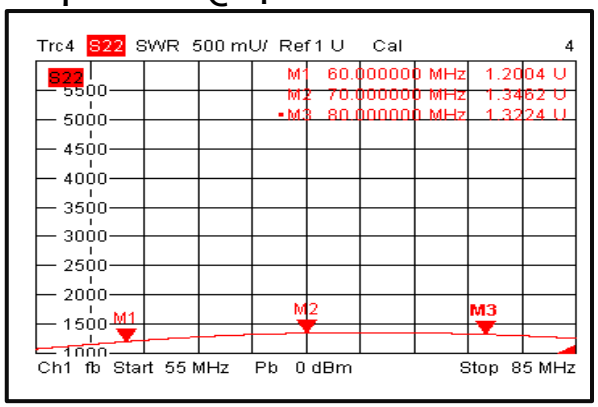
Insertion Loss @ -40°C



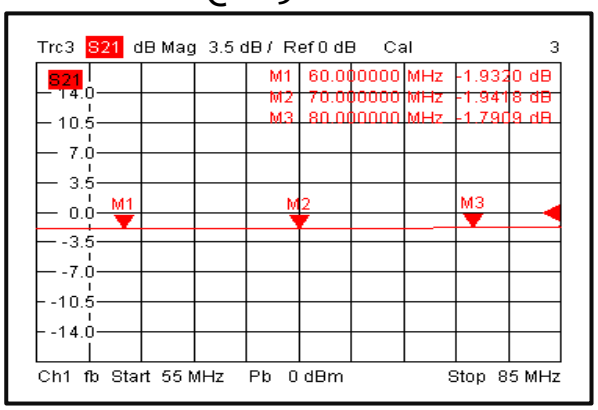
Input VSWR @ -40°C



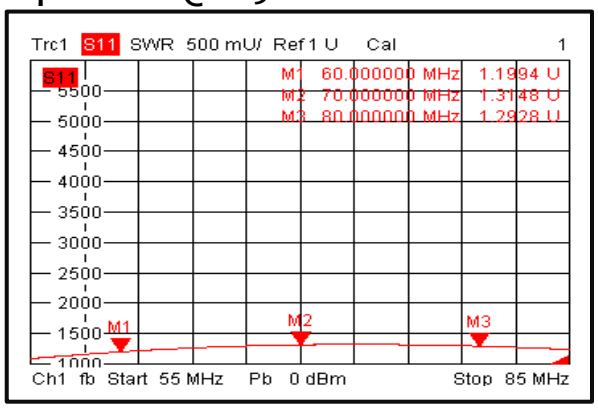
Output VSWR @ -40°C



Insertion Loss @ +85°C

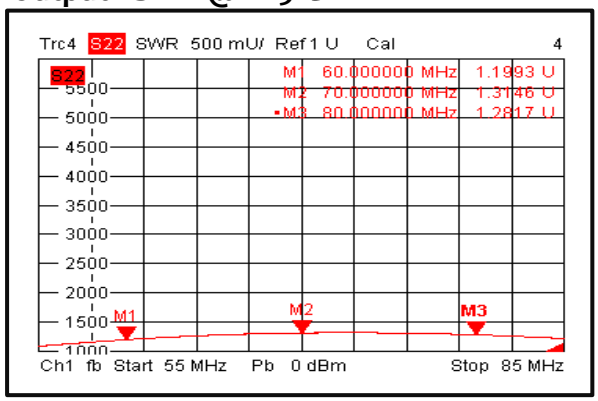


Input VSWR @ +85°C

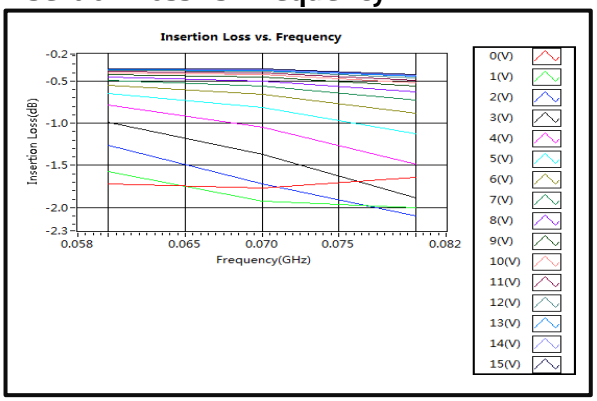


Voltage Control Phase Shifter 60 - 80MHz

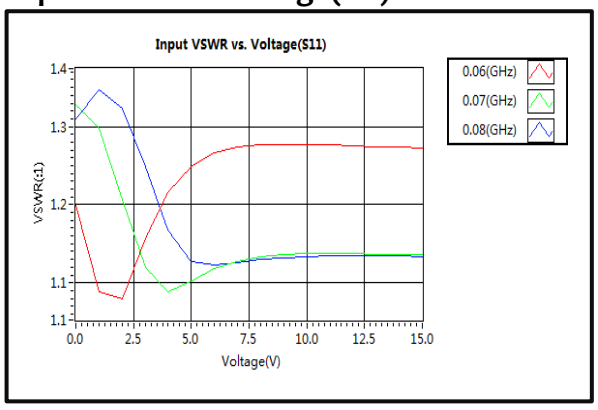
Output VSWR @ +85℃



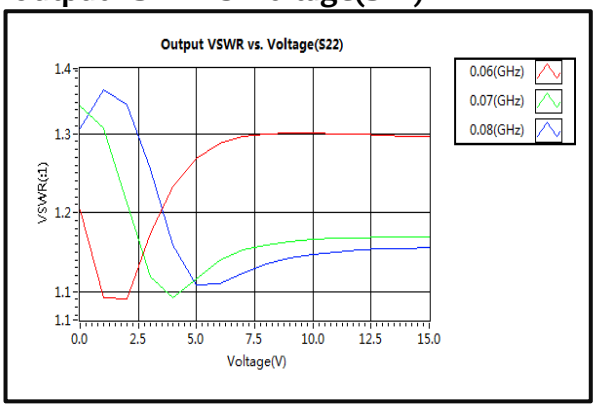
Insertion Loss vs. Frequency



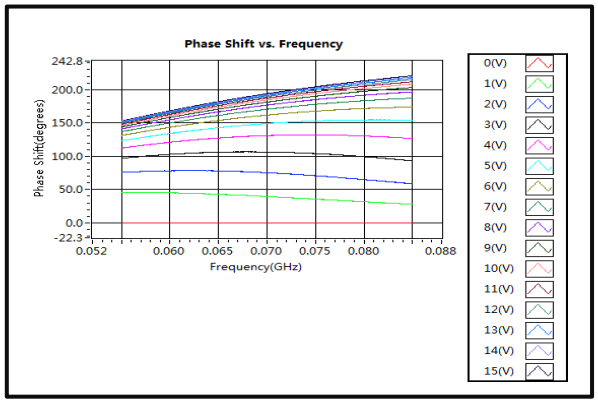
Input VSWR vs. Voltage(S11)



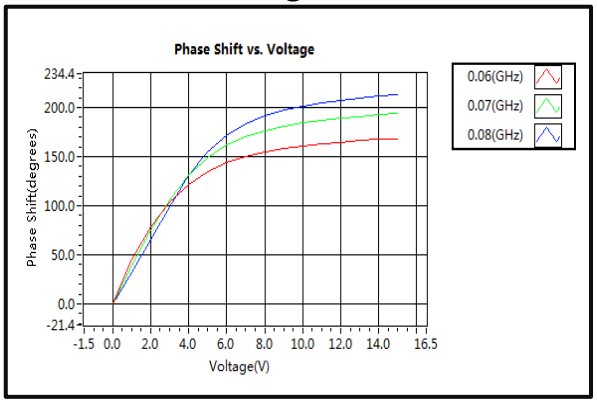
Output VSWR vs. Voltage(S22)



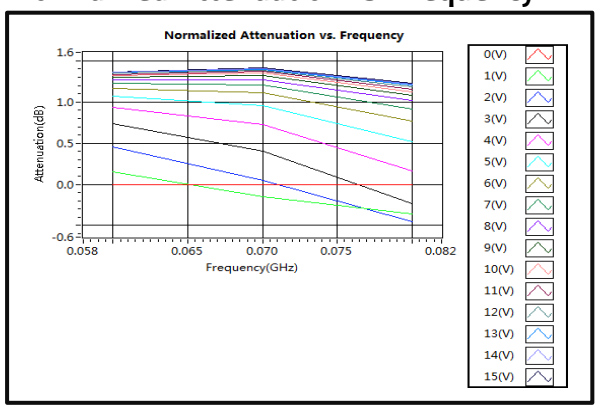
Phase Shift vs. Frequency



Phase Shift vs. Voltage



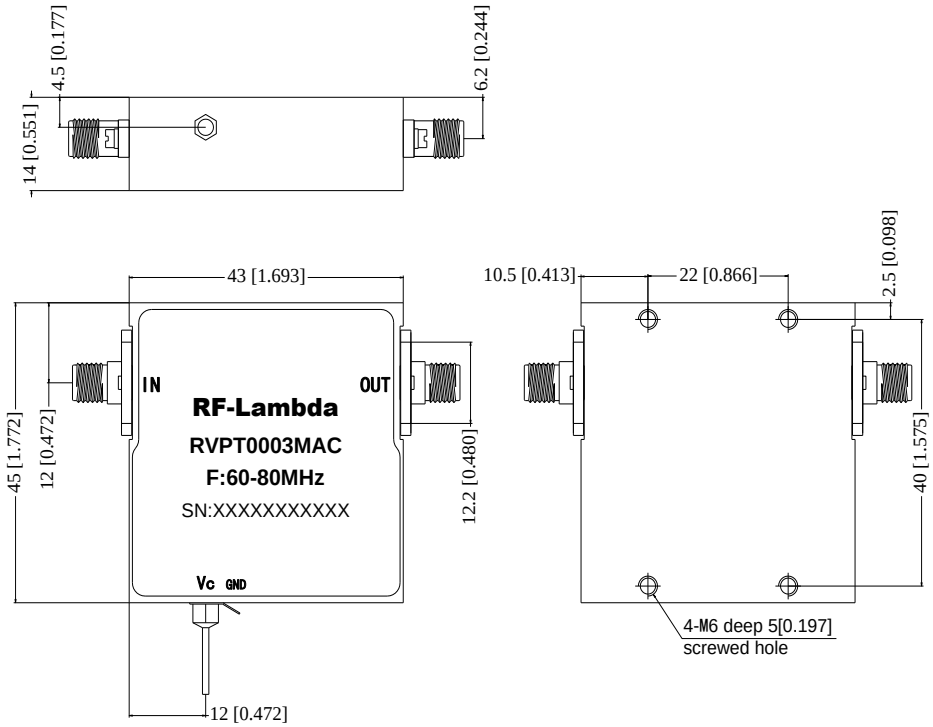
Normalized Attenuation vs. Frequency



Voltage Control Phase Shifter 60 - 80MHz

Outline Drawing:

All Dimensions in mm [inches]



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.